

PCR microarray probe circulating detection type biological chip

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Abstract

The invented PCR microarray probe circulating detection type biochip relates to a new scheme of PCR microarray probe hybrid detection type biochip, specially it is a new type biochip which adopts gas or liquid reciprocating flow mode and multi-temperature zone PCR gene selective amplification and combines with solid-phase microprobe array technology to make gene diagnosis. It is characterized by that PCR circulation process and probe hybrid detection are designed in a PCR microarray probe chip, and the four microreactors of denaturation, annealing, elongation and microarray probe hybridization of PCR are formed into a reciprocating or encircling circulating system, and the temperatures of denaturation, annealing, elongation and hybridization in the circulating system are independently and thermostatically controlled. Several PCR microarray probe type chip systems can be integrated on the same chip.

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EXHIBIT A